

Density Distribution of Charged Particles
in Meteor Tracks

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B019/B056

SUBMITTED: July 22, 1960

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Card 3/3

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S/170/62/005/009/002/010
B108/B104

26.2223

AUTHORS: Yermakov, V. S., Kondrashov, N. G., Perel'man, T. I.,

Romashko, Ye. A., Byvkin, V. B.

TITLE:

Temperature field in a cylindrical reactor fuel element
cooled by a turbulent flow of liquid

PERIODICAL: Inzenerno-fizicheskiy zhurnal, v. 5, no. 9, 1962, 36-45

TEXT: The temperature field of a cylindrical rod heated from inside and
cooled at the outside was studied theoretically in order to gain insight
into the processes of heat transfer within a reactor core. For
simplicity the heat transfer between rod and coolant is assumed to be
convective, the coolant flow to be turbulent (heating of the entire liquid
flow), and the heat conductivity as well as all parameters of the problem
to be constants. The problem of stationary heat transfer is then

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S/170/62/005/009/002/01

B108/B104

Temperature field in a cylindrical...

$$\lambda \left[\frac{1}{r} \frac{\partial}{\partial r} \left(r \frac{\partial t}{\partial r} \right) + \frac{\partial^2 t}{\partial z^2} \right] = -Q(r, z), \quad (1)$$

$$\gamma c S v \frac{\partial \theta}{\partial z} = P_1 a_1 (t|_{r=R} - \theta) + P_2 a_2 (t_0 - \theta), \quad (2)$$

$$0 < z < L; 0 < r < R.$$

$\theta(r, z)$ - temperature in the fuel element, $\theta(z)$ - temperature in the liquid, t_0 - temperature of channel wall, γ and c - density and specific heat of coolant, P_1 and P_2 - perimeters of fuel element and channel. $\theta(r, z)$ can be found from the neutron diffusion equation. The boundary conditions are

$$\lambda \frac{\partial t}{\partial r} \Big|_{r=R} = a_1 \left(t \Big|_{r=R} - \theta \right),$$

$\theta|_{z=0} = 0, t|_{z=0} = 0, \frac{\partial t}{\partial z}|_{z=L} = 0$. The approximate solution of this

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PEREL'MAN, I.L.; RYVUL, V.B.

Uniqueness of the solution to an anisotropic heat conduction problem. Izv. Akad. Nauk SSSR, 1980, No. 3, p. 51-61.

.. Institut teoretičeskoy mehaniki Akademii Nauk SSSR.

ACC NR: AT7000375

(A, N)

SOURCE CODE: UR/0000/66/000/000/0063/0085

AUTHCR: Lykov, A. V. (Academician AN BSSR); Perel'man, T. L. (Candidate of physico-mathematical sciences)

ORG: Heat and Mass Transfer Institute, AN BSSR, Minsk (Institut teplo- i massoobmena AN BSSR)

TITLE: Unsteady state heat transfer between a body and a fluid flow around it

SOURCE: Teplo- i massoperenos, t. 6: Metody rascheta i modelirovaniya protsessov teplo- i massoobmena (Heat and mass transfer, v. 6: Methods of calculating and modeling heat and mass transfer processes). Minsk, Nauka i tekhnika, 1966, 63-65

TOPIC TAGS: convective heat transfer, fluid flow, temperature distribution

ABSTRACT: The basic problem treated in the article is illustrated by Figure 1. The initial temperature distribution in the body remains homogeneous; consequently

$$t|_{t=0} = t_0. \quad (6)$$

With the exception of the surface $y = 0$, through which takes place the heat transfer between the solid body and the fluid flow, the whole surface of the body A is thermally insulated. Thus:

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$$\text{ACC NR: AT7000375} \quad \frac{\partial t}{\partial x} \Big|_{x=0} = \frac{\partial t}{\partial x} \Big|_{x=d} = 0; \quad (7)$$

$$\frac{\partial t}{\partial y} \Big|_{y=-R} = 0. \quad (8)$$

Finally, as usual, it is assumed that at the solid-fluid boundary

$$0 \Big|_{y=+0} = t \Big|_{y=-0}, \quad (9)$$

$$-k_s \frac{\partial \theta}{\partial y} \Big|_{y=+0} = -k_s \frac{\partial t}{\partial y} \Big|_{y=-0}. \quad (10)$$

The remainder of the article is given over to a mathematical development of the problem on the above basis. Results of the calculation are shown in extensive tables and in figures. Orig. art. has: 69 formulas, 4 figures, and 2 tables.

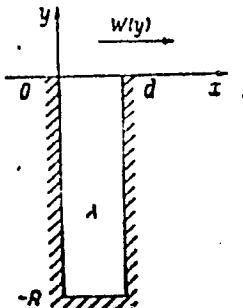


Figure 1. Position of body A
in the fluid flow

SUB CODE: 20 / SUBM DATE: 08Jun66 / ORIG REF: 004 / OTH REF: 002
Card 2/2

PEREL'MAN, T.L.

Effect of control of a boundary layer on transfer processes.
Dokl. AN BSSR 8 no.4:231-233 Ap '64. (MIRA 17:6)

1. Institut teplo- i massoobmena AN BSSR. Predstavлено академиком
AN BSSR A.K. Krasinym.

ACCESSION NR: AP4039329

8/0250/64/008/004/0231/0233

AUTHOR: Perel'man, T. L.

TITLE: Effect of control of the boundary layer on a transfer process (Presented by
A. K. Krasin, Academician AN BSSR)

SOURCE: AN BSSR. Doklady*, v. 8, no. 4, 1964, 231-233

TOPIC TAGS: boundary layer, transfer process, friction, asymptotic temperature

ABSTRACT: Suction of the boundary layer is known to have an effect on the transfer process. In order to estimate this effect, the author studies a simple transfer process with prolonged flow around a plate with uniform suction of the boundary layer. The equations of the laminar boundary layer in the presence of suction have the general form

$$u \frac{\partial u}{\partial x} + v \frac{\partial u}{\partial y} + \nu \frac{\partial^2 u}{\partial y^2} = 0 \quad (1)$$

$$\frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} = 0. \quad (2)$$

Only the boundary conditions vary for the velocity component along the axis.

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ACCESSION NR: AP4039329

$$u|_{y=0} = 0, \quad (3)$$

$$u|_{y=\infty} = U, \quad (4)$$

$$v|_{y=0} = v_0(x). \quad (5)$$

The ratio $|v_0(x)/U|$ is assumed small. With uniform suction on the surface of the plate, (5) is rewritten

$$v_0(x) = \text{const} = -c_0 < 0. \quad (6)$$

The author then uses this to determine asymptotic temperatures. He obtains

$$\theta(\infty) = \frac{t_0}{1 + \frac{1}{\chi} \frac{hv_0}{x}} \quad (7)$$

for the plate-fluid surface temperature, where $\chi = k_p/k_f$ is the ratio of the coefficients of heat conductivity of the plate and the fluid, χ is the coefficient of temperature conductivity of the fluid, v_0 is the rate of suction and h is the thickness of the plate. "The author is grateful to A. V. Lykov, who informed him of corresponding experiments of E. Ekkert." Orig. art. has: 16 formulas and 1 figure.

Card 2/3

ACCESSION NR: AP4039329

ASSOCIATION: Institut teplo- i massoobmena AN BSSR (Institute for Heat and Mass Exchange, AN BSSR)

SUBMITTED: 30May63

DATE ACQ: 09Jun64

ENCL: 00

SUB CODE: ME

NO REP SOV: 003

OTHER: 005

Cord 3/3

ANISIMOV, S.I. (Minsk); PEREL'MAN, T.L. (Minsk)

A nonlinear heat transfer problem. PMTF no.5:136-139 S-0
'63. (MIRA 16:11)

LYKOV, A.V., akademik, red.; SMOL'SKIY, B.M., prof., red.;
SHASHKOV, A.G., kand. tekhn. nauk, red.; PLYAT, SH.N.,
kand. tekhn. nauk, red.; POMERANTSEV, A.A., prof., red.;
ROMANENKO, P.N., prof., red.; PEREL'MAN, T.L., kand. fiz.-
mat. nauk, red.; YAROSHEVICH, U.T., kand. tekhn. nauk, red.;
BEL'ZATSKAYA, L., red. izd.-va; TIMOFEEV, L., red.izd-va;
SIDERKO, N., tekhn. red.; VOLOKHANOVICH, I., tekhn. red.

[Heat and mass transfer] Teplo i massoperenos. Minsk, Izd-
vo AN BSSR. Vol.1.[Thermophysical characteristics of materials
and methods for their determination] Teplofizicheskie kharakte-
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Lykova i B.M.Smol'skogo. 1962. 216 p. Vol.5. [Methods for
calculating and modeling heat-and mass-transfer processes] Meto-
dy rascheta i modelirovaniya protsessov teplo- i massoobmena.
1963. 471 p. (MIRA 16:10)

1. Vsesoyuznoye soveshchaniye po teplo- i massoobmenu. 1st,
Minsk, 1961. Akademiya nauk Bel.SSR (for Lykov).
(Materials--Thermodynamic properties)
(Heat--Transmission) (Mass transfer)

PEREL'MAN, Vl.

Sasha will become a turner. Sov. profsoiuzy 17 no.21:42-43
N '61. (MIRA 14:10)
(Magnitogorsk--Orphans and orphanages)

ANIN, B.; YEMEL'YANOV, B.; PEREL'MAN, V.

Man, work and communism. Sov. profsoiuzy 18 no.9:12-15 My
'62. (MIRA 15:4)

1. Spetsial'nyye korrespondenty zhurnala "Sovetskiye profsoyuzy."
(Labor and laboring classes)

KUZYUMIN, N.; PSHENICHKO, P.; PEREL'MAN, V.

When the community has no control. Sov.profsoyuz. 16 no.12:
(MIRA 13:6)
17-19 de '60.

1. Profgruporg brigady plotnikov tret'yego uchastka stroitel'stva Balakleyskogo tsementnogo zavoda, g.Balakleya, USSR (for Kuzyumin).
2. Brigadir kompleksnoy brigady vtorogo uchastka stroitel'stva Balakleyskogo tsementnogo zavoda, g.Balakleya, USSR (for Pshenichko).
3. Korrespondent zhurnala "Sovetskiye profsoyuzy" (for Perel'man).
(Balakleya--Cement industries)

PEREL'MAN, V. (Archangel'sk)

Voluntary policemen. Sov. profsoiuzy 16 no.23:31-33 D '60.
(MIRA 14:1)

(Archangel—Construction workers)
(Social problems) (Auxiliary police)

PEREL'MAN, V.

Improve scientific and technical aspects of mixed feed production.
Mult.-elev.prom. 25 no.3:29 Mr '59. (MIRA 12:6)

1. Valgaskiy kombikormovyj zavod Estonskoy SSR.
(Flour mills)

PEREL'MAN, Viktor

People with hearts of stone. Sov. profsciuz 18 no.3:45-46
F '62, (MIRA 15:3)

1. Spetsial'nyy korrespondent zhurnala "Sovetskiye profsoyuzy".
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PEREL'MAN, V.

Feed mill production plan exceeded 5 times. Makh.-elev. prom. 24
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(Valga--Feed mills)

PEREL'MAN, V.I.

SMIRNOVA, N.B.; NESMIRANOV, A.N., akademik, redaktor; TOPCHIYEV, A.V.,
akademik redaktor; ISAKOVA, O.V., redaktor; LIKHTENSHTEYN, Ye.S.
redaktor; SHUNKOV, V.I., redaktor; PEREL'MAN, V.I., redaktor;
ZEPILYAKOVA, T.A., tekhnicheskiy redaktor.

[Britske, Ergard Viktorovich, 1877-1953] Vstup.stat'ia S.I.
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Smirnovoi. Moskva, 1955. 37 p.(Materialy k bibliografii
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159 Kyatkiy Spisochnik Khimika. Sost. V. I. Perel'man, Pod Obschch. red. E. V. Nekrasova, Izd. 3-ye, Ispr. i Dop. M., Goskhimizdat. 1954. 60 s. Sert. 21SM. 50,000 Ekz. 19 n 60K V Per.- Na Pereplete Sost. Ne Kazan. -
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Sc: Knizhnaya, Letopis, Vol. 1, 1955

FENEL'YEV, V. I.

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1948. 423 p. (49-1388)

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PEREL'MAN, V.I.; FILATOV, I.G.

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I.G. Filatov. Zhur.prikl.khim. 28 no.12:1358-1360 D '55.(MLRA 9:3)
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PERELMAN, V.

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B. V. Nekrasova. Izd. 3 isprav. i dopol. Moskva, Goskhimizdat, 1954.

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YASHKIN, Ye.V., redaktor; LUR'K, M.S., tekhnicheskiy redaktor.

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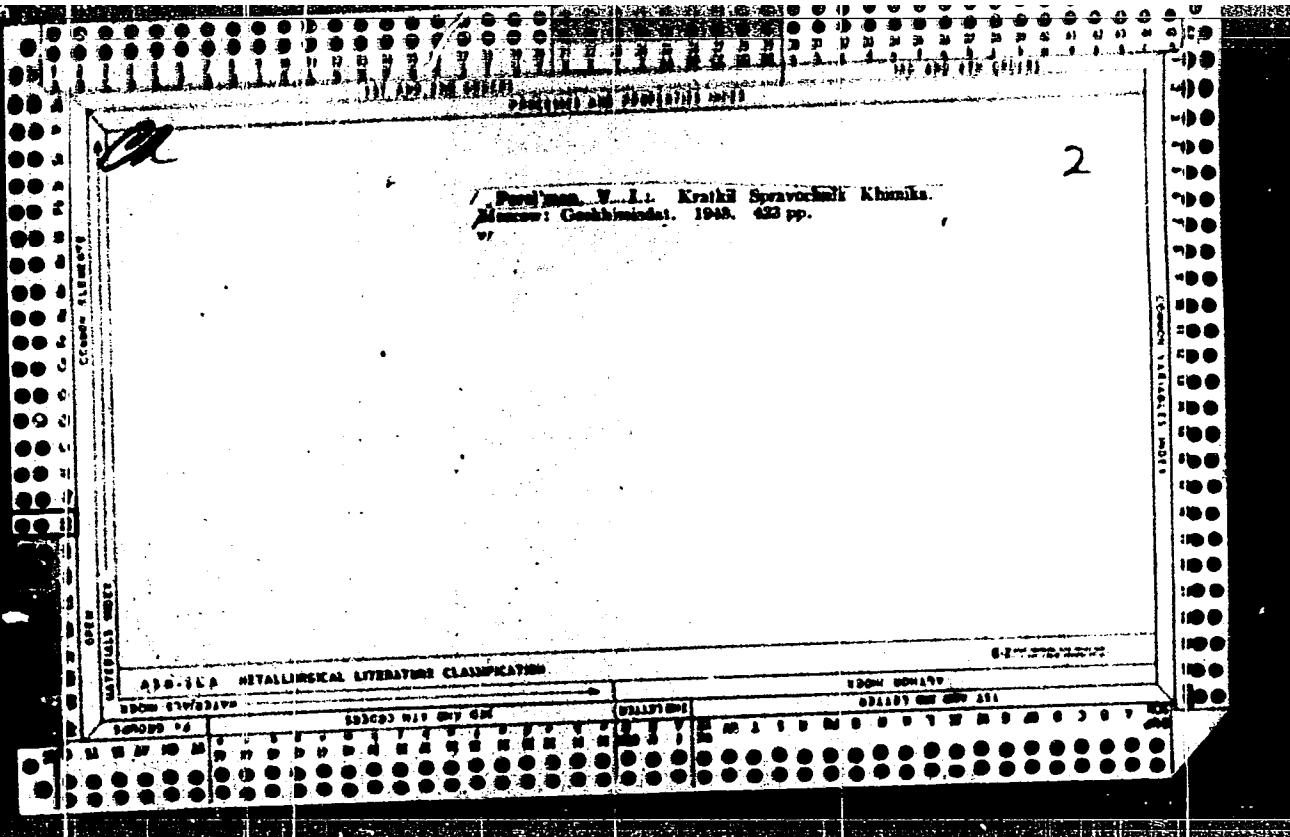
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PEREL'MAN, V.I.; NEKRASOV, B.V., redaktor; ABRAMOV, V.A., redaktor;
YASHKOV, Ye.V., redaktor; LUR'YE, M.S., tekhnicheskiy redaktor

[Concise handbook of chemistry] Kratkii spravochnik khimika.
Pod obshchei red. B.V.Nekrasova. Izd. 5-oe, stereotip. Moskva,
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1. Chlen-korrespondent AN SSSR (for Nekrasov)
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LOGVINOVА, R.V.; PEREL'MAN, V.M., kанд. med. наук

Methodology for radiography of the vena cava. Vest. rent. i rad.
40 no. 5:26-30 S-0 '65. (MIRA 18:12)

I. Kafedra urologii (zav. - prof. I.P. Pogorelko [deceased])
TSentral'nogo instituta usovremenstvovaniya vrachev i
I-ya kafedra rentgenologii i radiologii (zav. - prof. S.A.
Reynberg) na baze bol'nitsy imeni S.P. Botkina, Moskva.

MAZIN, V.V.; PEREL'MAN, V.M., kand. med. nauk

Excretory urography with compression in the diagnosis of
diseases of the solitary kidney. Sov. med. 28 no.10:131-
134 O '65. (MIRA 18:11)

1. Urologicheskaya klinika (zav.- prof. I.P. Pogorelko
[deceased]) i 1-ya kafedra rentgenologii i radiologii
(zav.- prof. S.A. Reynberg) TSentral'nogo instituta
uaoovershenatvovaniya vrachey na baze klinicheskoy ordena
Lenina bol'niitsy imeni Botkina, Moskva.

PEREL'MAN, V.M.

Precipitation pneumocystography in the X-ray diagnosis of
tumors of the urinary bladder. Vest. rent. i rad. 40
no.1841-46 Ja-F '65. (MIRA 18:6)

1. L-ya kafedra rentgenologii i radiolegii (zav.- prof. S.A.
Reynberg) kafedra urrologii (zav.- prof. A.P. Frunkin [deceased])
Central'nogo Instituta usovremenstvovaniya vrachey, Moskva.

KHARIN, S. Ye.; PERELYGIN, V. M.

Equilibrium of a water-alcohol-sugar solution with its vapor at
boiling temperature. Izv. vys. ucheb. zav.; pishch. tekhn. no. 2;
101-105 '64. (MIRA 17:5)

1. Voronezhskiy tekhnologicheskiy institut, kafedra fizicheskoy
i oloidnoy khimii.

SVIRIDOV, S.A.; PEREL'MAN, V.M.; YEVDOKIMOVA, V.M. (Moskva)

Diagnosis of interstitial calcinosis. Klin. med. 41 no.4:
110-114 Ap '63. (MIRA 17:2)

1. Iz 1-y kafedry rentgenologii i radiologii TSentral'nogo
instituta usovershenstvovaniya vrachey (zav. - zasluzhennyy
deyatel' nauki prof. S.A. Reynberg) na baze bol'nitsy imeni
S.P. Botkina.

PEREL'MAN, V.M. (Moskva, v-312, l-ya Zagorodnaya ul. 1-b, korpus 1, kv.48);
SHABAD. A.L.

Role of urinary stasis in the pathogenesis of cancer of the urinary
bladder. Vop. onk. 9 no.10:82-87 '63. (MIRA 10:12)

1. Iz 1-y kafedry rentgenologii i radiologii (zav. - zasluzhennyy
deyatel' nauki prof. S.A.Reynberg) i kafedry urologii (zav. -
zasluzhennyy deyatel' nauki prof. A.P.Frumkin [deceased]) ISentral'-
nogo instituta usovershenstvovaniya vrachey v Moskve.

PEREL'MAN, V.M.

X-ray diagnosis of some rare forms of tumors of the urinary bladder and their localization. Trudy TSIU 62:291-296 '63.

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1. Kafedra rentgenologii (zav. zasluzhennyy deyatel' nauki prof. S.A.Reynberg) i kafedra urologii (zav. zasluzhennyy deyatel' nauki prof. A.P.Frumkin [deceased]) TSentral'nogo instituta usovershenstvovaniya vrachey.

PEREL'MAN, V.M.

Combined contrast in the X-ray examination of tumors of the urinary bladder. Vest. rent. i rad. 37 no.1:70-71 Ja-F '62.
(MIRA 15:3)

1. Iz l-y kafedry rentgenologii i radiologii (zav. - zasluzhennyy deyatel' nauki prof. S.A. Reynberg), iz kafedry urologii (zav. - zasluzhennyy deyatel' nauki prof. A.P. Frumkin) TSentral'nogo instituta usovershenstvovaniya vrachey (rektor M.D. Kovrigina).

(BLADDER--TUMOR)
(URINARY ORGANS--RADIOGRAPHY)

PEREL'MAN, V. M. (Moskva)

True cancer of the appendix. Klin. med. no.11:128-131 '61.
(MIRA 14:12)

1. Iz pervoy kafedry rentgenologii i radiologii (zav. - zasluzhennyy
deyatel' nauki prof. S. A. Reynberg) TSentral'nogo instituta usover-
shenstvovaniya vrachey.

(APPENDIX(ANATOMY)--CANCER)

TAGER, I.L.; PEREL'MAN, V.M.

Precipitation pneumocystography in combination with the injection
of gas into the perivesical cellular tissue and the abdominal
cavity in the diagnosis of bladder tumors. Urologia 25 no. 4:24-
26 Jl-Ag '60. (MIRA 14:1)

(BLADDER--TUMORS)

PEREL'MAN, Viktor Il'ich; TSIVENKO, V.I., red.; SHPAK, Ye.G.,
tekhn. red.

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PEREL'MAN, Viktor

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31-33 .M '61. (MIRA 14:7)
(Trade unions) (Russian literature—History and criticism)

PEREL'MAN, V.M. (Moskva)

Case of localized multiple neurofibromatosis in the abdominal cavity. Klin. med. 41 no. 9:148-153 S'63 (MIRA 17:3)

1. Iz l-y kafedry rentgenologii i radiologii (sav. - zasluzhennyy deyatel' nauki prof. S.A. Raynberg) TSentral'nogo instituta usovershenstvovaniya vrachey, Moskva.

PEREL'MAN, V.M. (Moskva, b-152, 1-ya Zagorodnaya ul., leg.korpus
1, kv.48)

X-ray diagnosis of tumors of the urinary bladder. Vop. onk.
8 no. 10,29-34 '62. (MFA 17:7)

1. Iz I kafedry rentgenologii i radiologii i central'nogo
instituta usovremenstvovaniya vrache (zav. - zasluzhennyy
deyatel'nosti, prof. S.F.Reynberg) i kafeury urologii (zav.-
zasluzhennyy deyatel'nosti, prof. .P.Frumkin) na base ordena
Lenina bol'nitsy imeni S.P.Potekina.

PEREL'MAN, V.M. (Moskva, 1-ya Zagorodnaya ul., kop.1, kv.48)

Differential diagnosis of tumors of the urinary bladder.
Vest. rent. i rad. 38 no.1:40-43 Ja-F'63. (MIRA 16:10)

1. Iz l-y kafedry rentgenologii i radiologii (zav. - zashlu-
zhennyj deyatel' nauki prof. A.P.Frumkin [deceased]) TSen-
tral'nogo instituta usovershenstvovaniya vrachey.

*

RYBAKOVA, N. I., kand. med. nauk; PEREL'MAN, V. M.; SHABAD, A. L.

Importance of tomography in combination with pneumoretroperitoneum
in the diagnosis of adrenal diseases. Probl. endok. i gorm. 8
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no. 3:71-82 My-Je '62.

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deyatel' nauki prof. S. A. Reynberg) i kafedry urologii (zav. -
zasluzhennyy deyatel' nauki prof. A. P. Frumkin) TSentral'nogo
instituta usovershenstvovaniya vrachey.

(ADRENAL GLANDS--RADIOGRAPHY)
(PNEUMORETROPERITONEUM, ARTIFICIAL)

PEREL'MAN, Ya. A.

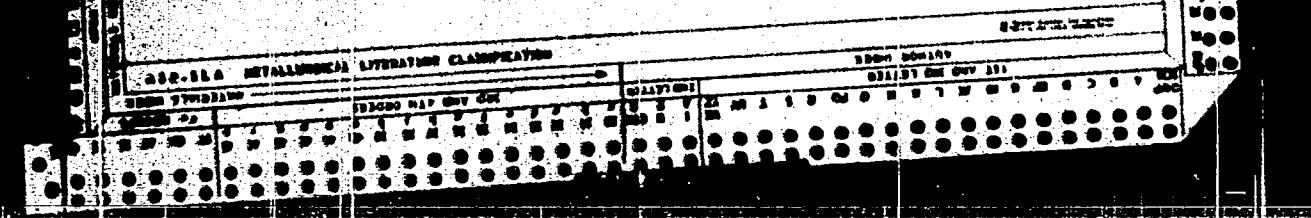
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Ya. Perelman (Technics Dots, 1953, 2 [6], 17-27).
Hexamine in 0.025 to 0.07 M soln. is titrated
potentiometrically with 0.1 N HCl in a platinum
vessel connected to a quinhydrone and calomel
electrode system. Results obtained with the Jass
electrode are too high. The method is suitable for
pharmaceutical preparations containing vegetable
extracts. The error is 1.0 per cent. for solutions
with concn. as low as 0.026 M and 3.8 per cent. for
0.008 M solutions. K. HAWES

PERLMAN, Ya. B.

CA

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Julian P. Smith



PEREL'MAN, Yakov Isidorovich; BAYEVA, A.P., red.; MURASHOVA, N.Ya.,
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Izd.7. Moskva, Fizmatgiz, 1962. 183 p. (MIRA 15:10)
(Mathematics)

PERELMAN, Iakov Isidorovich

V mirovye dali. [Interplanetary voyages. Rockets] Moskva, Gosaviakhim SSSR, 1920.
27 p., illus., diagrs. (Biblioteka zhurnala "Aviatsiya i khimiia." No. 2).
DLC: TL790.P42

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress
Reference Department, Washington, 1952, Unclassified.

PERELMAN, Ya. I.

DECEASED

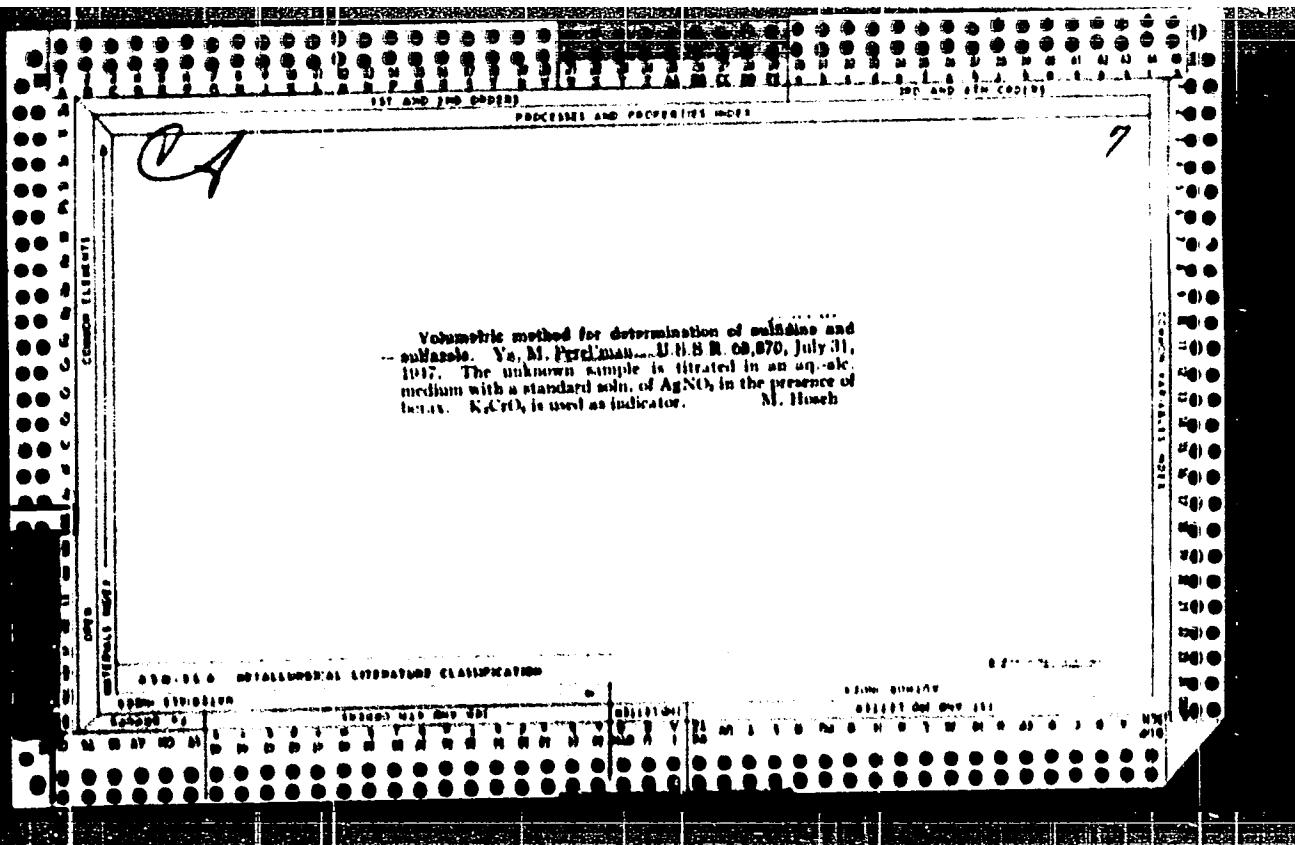
Mathematics

see ILC

PEREL'MAN, JAKOV ISIDOROVICH

Perel'man, Jakow Isidorovich. Zajmujaca fizyka; paradoxes, lamiglowki, zadania, doświadczenia, klopotliwe pytania i opowiadania z dziedziny fizyki. (Prezekl. z 14. wyd. rosyjskiego Janiny Budkowskiej) Warszawa, Ksiazka i Wiedza, 1950. (Interesting physics; paradoxes, puzzles, exercises, experiments, troublesome questions and short stories concerning physics. Vols. 1-2. Tr. from the Russian)

SO: Monthly list of East European Accessions, LC, Vol. 3, No. 1, Jan. 1954, Uncl



FEREL'MAN, YA. M.

IA 2/4976

USSR/Chemistry - Galena
Chemistry - Pharmaceuticals

Jan 48

"Control of the Quality of Galena Production,"
Dr. M. Ferel'man, Leningrad Sci Res Phar Inst,
14 pp

"Red from USSR" No 1

Stalin Five-Year Plan calls for introduction
of many new preparations, requiring new pro-
duction techniques. One of main problems will
be finding methods to control the quality of
these products. The galena industry is devot-
ing much time to the production of medical

2/22/88

Jim B

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240010014-8"

preparations from cardiac substances. Suggests ways
and methods to control quality of such products.

2/4976

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240010014-8

PERELMAN, Ya. M. and BRODSKIY, B. A.

Analiz Gotevih Lekarstvennih Form (Analysis of Prepared Medicinal Forms), Leningrad,
1950.

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240010014-8"

PERELMAN, YA. M.

Chemical Abst.
Vol. 48 No. 4
Feb. 25, 1954
Pharmaceuticals, Cosmetics, and
Perfumes

Potentiometric investigation of diuretin. Ya. M. Perelman. Trudy Komissarii Anal. Khim., Akad. Nauk S.S.R., Otdel. Khim. Nauk 4(7), 205-16 (1952).—Theobromine in diuretin was detd. by 3 potentiometric methods, titration with HCl and titration with AgNO_3 . The solv. of Ag theobrominate was 3×10^{-1} at 20° . The HCl method required a correction for the influence of salicylate on the solv. of theobromine. The literature value of 1:3282 for H_2O solv. of theobromine was used in calcs. A 0.3-0.4 g. sample of diuretin was dissolved in 30 ml. of freshly boiled and cooled H_2O and titrated with 0.1*N* HCl. Std. calomel and glass electrodes were used. Near the equiv. point, readings were taken after each 0.1-ml. addn., and the point was detd. at the max. value of $\Delta E/\Delta C$. The percent theobromine = $\frac{1}{2} \left(\frac{M \times 0.0180}{A} + 1 \right) \left(\frac{A + M}{3282} \right) \times 100\% / H$, where A = vol. of soln. taken for titration, M = ml. of acid used, and H = sample wt. Samples which had absorbed CO_2 did not dissolve completely and gave 2 max. The 2nd was used for calens. Compared to the N detn., the relative error was $\pm 0.7\%$. Other compds. found with theobromine in pharmaceuticals did not interfere. For the AgNO_3 method 0.3 g. diuretin was dissolved in 30 ml. H_2O and titrated with 0.1*N* AgNO_3 with a Ag electrode. The other electrode could be any half cell. The 2nd max. was used in calen. For prepn. contg. approx. 45% theobromine the relative error was approx. 4.1%. For the solv. study 0.2 g. theobromine was added to 30-50 ml. H_2O and 10% KOH was added dropwise to dissolve the theobromine. The soln. was titrated in a closed vessel at 20° with 0.1*N* AgNO_3 . The concn. of Ag was calcd. from $E = 0.581 - \log 0.078/H$. Enrica Mayer

PEREI'MAN, Ya. M.

"A Potentiometric Micromethod for the Determination of Pyramidon," Zavodskaya Laboratoriya, No 8, 1952, pp 957-959.

PEREL'MAN, Ya.M.

Potentiation method of quantitative determination of urotrophin. Aptech.
delo, Moskva 2 no.6:17-22 Nov-Dec 1953. (CIML 25:5)

1. Of Leningrad Pharmaceutic Chemistry Institute of the Ministry of
Public Health USSR.

PEREL'MAN, YA. M.

✓/K
47
• 511
2, 5

Analyse siertiger arzneimittelformen, von "a. M. Perel'man and R. A. Brodskiy. 2. Ausgabe, Berlin, Volk und Gesundheit, 1955.
520 p. illus., diagrs., tables.
Translation from the Russian: "Analiz gotovykh lekarstvennykh form,"
Moscow, 1950.
"Allgemeine Literatur": p. 509-510.

3702 *P. Kegels* **Studies of barbiturates. I.**
Analytical barn *Studies of silver salts of barbituric acid.*
Ya. M. Perelman *Leningrad Chem.-Pharm. Inst.*
Z. Z. Andrievskii *1956, 11 (2), 241-247.*—By the addition of an excess of AgNO_3 and an excess of NH_4^+ to a soln. of barbitone a d-substituted silver salt of barbitone is pptd. From determination of the potential of conen. cells it is shown that the solubility product of the compound is $6 \cdot 8 \times 10^{-11}$, and the solubility in water at 10°C . is $1 \cdot 10 \times 10^{-6}$ mole per litre. Potentiometric titration of barbitone can be carried out by titrating the soln. (25 ml) in the presence of 1 g of Na_2CO_3 with 0.1 N AgNO_3 , silver wires being used as electrodes. One ml of +1 N AgNO_3 is equivalent to $0 \cdot 018419$ g of barbitone. The error is $< \pm 1.2$ per cent of the constant. The instability constant of the complex under these conditions is $4 \cdot 7 \times 10^{-6}$ at 20°C .

G. S. SMITH

PERIODIC

135. Potentiometric studies of barbiturates. II.
Effect of pH on complex formation of barbiturates
with silver ions. Ye. M. Yerel'man. (Leningrad
Chem. Institute, Inst. "Zavod Rukhina", 1956,
11, (4), 488-493.—Potentiometric titration of the
compounds $X\text{-Na}$, where X is a barbituric acid
derivative, with AgNO_3 shows a potential jump
corresponding to the formation of $[X\text{-Ag}]^+$ and
a further, insignificant jump corresponding to the
completion of formation of $[X\text{-Ag}]^+$. In the presence
of borax, the complex $[(X\text{-})_2\text{Ag}]^+$ is formed. By
titration of barbituric acid derivatives having no
substituents on the N atoms, the complex $[X\text{-Ag}]^+$
is formed at pH 9.9 and the complex $[(X\text{-})_2\text{Ag}]^+$
at pH > 11.2. Useful results in the titration of
barbitone and allobarbitalone to the formation of
 $[X\text{-Ag}]^+$ are obtainable in the cold in the presence of
0.2% of borax in 50 ml.

E. S. SMITH

PEREL'MAN, Ya. M. PRUDEN'S, L.P.

Potentiometric titration of mixtures of organic acids.

Apt. de lo 14 no. 237-42 K-14p 165.

(MIR. 19.1)

I. Leningradskiy khimiko-farmatsevticheskiy institut.

Submitted February 11, 1964.

PEREJMIN, Ya.N.; RUMYANTSEVA, O.I.

Analytic characterization of technical. and. scientific. work.
No. 16.

1. Leningradsky Vain-Kovalevskiy Institute. Subj. 14
November 13, 1964.

PEREL'MAN, Ya.M.

Achievements in the field of mathematical analysis in the last past five years and prospects of development. Opt. no. 11 L. S. No. S-9 '62.

1. Leningradskiy kliniko-fizioterapevtskij institut.

GAVRILIN, G.F.; PEREL'MAN, Ya.M.

Semimicromethod of determining pregnin. Med. prom. 17 no.6:
48-49 Je'63 (MIRA 17:4)

1. Leningradskiy khimiko-farmatsevticheskiy institut.

PERKL'MAN, Ya.M.

Physicochemical methods for the analysis of pharmaceutical
preparations. Apt. delo 12 no. 5:72-81 S-0'63 (MIRA 16:11)

1. Leningradskiy khimiko-farmaceuticheskiy institut.

*

PEREL'MAN, Ya.M.; YEVSTRATOVA, K.I.

Potentiometric titration of mixtures of dibazol with papaverine,
salsoline, salsolidine and dionine. Apt. delo 12 no.5:27-31
S-0'63.
(MIRA 16:11)

1. Leningradskiy khimiko-farmatsevticheskiy institut.

*

PEREL'MAN, Ya.M.; GAVRILIN, G.F.

Semimicromethod for the determination of cholesterol and
 β -sitosterol. Zhur.anal.khim. 18 no.4:529-531 Ap '63,
(MIRA 16:6)

1. Leningrad Chemico-Pharmaceutical Institute.
(Cholesterol) (Sitosterol)

PEREL'MAN, Ya.M.; YEVSTRATOVA, K.I.

Potentiometric titration of the salts of organic bases in
nonaqueous solvents. Part 2: Quantitative determination of
promedol and dibazole. Trudy Len. khim-farm. inst. no.14:
31-37 '62 (MIRA 17:2)

Quantitative determination of codeine phosphate. Ibid. 38-40

PEREL'MAN, Ye. M.; YEVSTRATOVA, K. I.

Potentiometric titration of the salts of organic bases in non-aqueous solutions. Quantitative determination of spasmolytine and phenatine. Apt. delo 9 no. 5:16-19 S-0 '60. (MIRA 13:10)

1. Kafedra farmatsevticheskoy khimii Leningradskogo khimiko-famatsevticheskogo instituta (zav. - prof. A.M. Khaletskiy).
(PHENATINE) (SPASMOlyTINE) (POTENTIOMETRIC ANALYSIS)

PEREL'MAN, Ya.M.; YEVSTRATOVA, K.I.

Quantitative determination of benzacine in tablets. Med. prom. 14
no. 10:35-37 O '60. (MIRA 13:10)

1. Leningradskiy khimiko-farmatsevticheskiy institut.
(BENZILIC ACID)

PEREL'MAN, Yakov Moiseyevich; KALASHNIKOV, V.P., red.[deceased]; RULEVA, M.S.,
tekhn. red.

[Analysis of medicinal forms; practical manual] Analiz lekarstvennykh
form; prakticheskoe rukovodstvo. Izd. 3, perer. i dop. Leningrad,
Gos. izd-vo med. lit-ry Medgiz, Leningr. otd-nie, 1961. 615 p.
(MIRA 14:7)

(CHEMISTRY, MEDICAL AND PHARMACEUTICAL)

GUREVICH, I.Ya.; PEREL'MAN, Ya.M.

Method for determining the codeine in medicinal mixtures. Apt.
delo 9 no.2:14-19 Mr-Ap '60. (MIRA 13:6)

1. Iz kafedry farmatsevticheskoy khimii (zav. - prof. A.M.
Khaletskiy) Leningradskogo khimiko-farmatsevticheskogo instituta.
(CODNINN)

PEREL'MAN, Ya.M.

Potentiometric analysis of diuretin. Trudy Kon. anal. khim. 4:205-
215 '52. (MIRA 11:6)

(Diuretin)
(Potentiometric analysis)

PEREL'MAN, Ya.V., inzh.; SHULYAT'YEVA, G.N., inzh.

Concerning I.M. Ter-Oganesian's article "Use of MS-07-type
instruments to measure resistances." Prom.energ. 13 no.4:34-35
Ap '58. (MIRA 11:4)

(Electric measurements)
(Electric instruments)
(Ter-Oganesian, I.M.)

PEREL'MAN, Ya. V.

94-4-19/25

AUTHOR: Perel'man, Ya.V., and Shulyat'yeva, G.N., Engineers
TITLE: Discussion on the Article by I.M. Ter-Oganesyan "Some Special Features of Resistance Measurements with Instruments Type MS-07" (Po povodu stat'i I.M. Ter-Oganesvana "O nekotorykh osobennostyakh izmereniya soprotivleniya priborami tipa MS-07") (Promyshlennaya Energetika, 1957, No.2) and the Author's Reply to the Above.

PERIODICAL: Promyshlennaya Energetika, 1958, Vol.13, No.4,
pp. 34 - 36 (USSR).

ABSTRACT: Ter-Oganesyan's article dealt with the use of instruments, type MS-07, to measure the resistance of conductors and in particular to measure the resistance of earthing equipment. There is a great need for work on the measurement of the condition of earthing equipment but Ter-Oganesyan's article did not take account of the actual circuit characteristics. His estimate of the errors of the instrument is said to be over-pessimistic, and in fact many of the errors cancel one another. It would be serious if the errors were negative but in fact they are mostly positive. Therefore, it is quite permissible to use instrument, type MS-07, to assess the condition of earthing equipment.

Author's reply.

This is the author's reply to the above discussion. He states
Card 1/2

94-4-19/25

Discussion on the Article by I.M. Ter-Oganesyan "Some Special Features of Resistance Measurements with Instruments Type MS-07 (Promyshlennaya Energetika, 1957, no.2) and the Author's Reply to the Above.

that the critics of his paper tend to overlook the inductance of the earthing circuit, which can give a negative error of up to 30% and not 10%, as they think. A curve is given to show the errors that can result from incorrect assessment of impedance. A negative error can arise and in some cases the instrument cannot be used to determine whether an earthing system is in good condition.

Editorial Note to the above Discussion

This note on the above discussion points out that instrument MS-07 is unsuitable for measuring reactive impedances. The article of Ter-Oganesyan shows that his property of the instrument determines its principle of action. Unfortunately, instruments intended for testing earthing are not yet manufactured. The conditions under which this instrument can be used for the purpose are defined. There is 1 figure.

AVAILABLE: Library of Congress
Card 2/2

PEREL'MAN, Ya.V.
ALEKSANDROV, A.A.; SAVIN, M.A.; PEREL'MAN, Ya.V.

"Protective grounding in electric installations" by
M.R. Naifel'd. Reviewed by A.A. Aleksandrov, M.A. Savin,
Ya.V. Perel'man. Prom.energ. 12 no.1:36-37 Ja '57. (MLRA 10:2)

1. Glavnyy energetik zavoda "Elektrosila" (for Aleksandrov)
2. Inspektor Energoinspeksii Energosbyta Leningradskoy
elektroenergeticheskoy sistemy (for Savin) 3. Chlen
Vsesoyuznogo nauchnogo inzhenerno-tehnicheskogo obshchestva
energetikov (VNIIOEP) (for Perel'man).
(Electric currents--Grounding)

PEREL'MAN, Yekov Isidorovich; UGAROV, V.A., dotsent, otd.red.; VERES, L.P.,
red.; KRYUCHKOVA, V.N., tekhn.red.

[Physics made interesting] Zenimateльная fizika. Izd.16. Moskva,
Gos.izd-vo fiziko-matem.lit-ry. Book 2. 1960. 279 p.

(MIRA 13:10)

(Physics--Problems, exercises, etc.)

AUTHOR: Perel'man, Ye.G.

32-1-28/55

TITLE: On the Problem of Criteria of the Determination of the Depth of Cementation Layers (K voprosu o kriterii otsenki glubiny tsementovannogo sloya).

PERIODICAL: Zavodskaya Laboratoriya, 1956, Vol. 24, Nr 1, pp. 65-67 (USSR)

ABSTRACT: In the introduction it is said that, although this method is no longer new, there nevertheless exist no uniform data in Soviet scientific literature. It is recommended to take account of the thickness of the layer of cementation according to micro- and macro-structure and hardness, together with the determination of the thickness of the eutecticum layer as far as the middle of the zone of transition and the full thickness down to the original structure. For purposes of comparison experiments were carried out with the steels: 15X, 25X, 18FT, 30XFT, 12XH3A and 30XIBA with 15 different processes of cementation. Comparisons were made at two steel plants (A and B), and several laboratory workers carried out the same experiments. The following conclusion is drawn: Up to the middle of the zone of transition control can be carried out according to the micro- or macrostructure (with a measuring magnifying

Card 1/2

On the Problem of Criteria of the Determination
of the Depth of Cementation Layers

32-1-28/55

glass), if the factor of subjectivity is taken into account; selection of criteria for judging cementation layers in steels with a higher carbon content is difficult. The softening of steel in a carbonizer, which is the practice in this case, for the purpose of avoiding a loss of carbon, influences the thickness as well as the microstructure of the cementation layer, and this may lead to grave errors in the results obtained. As a uniform criterion for judging the thickness of the cementation layer it is therefore recommended to carry out the process of determination according to microstructure up to the middle of the layer of transition, and to determine the thickness of the layer according to the macrostructure by means of measuring with a magnifying glass. It is further recommended that this should be included among the "FOCT" standards. There are 4 figures.

AVAILABLE: Library of Congress

Card 2/2 1. Metallurgy 2. Phase transition-Control

PEREL'MAN, Ye. G.

NAME & ADDRESS: 807/359
Biro na Poljotchnym Proizvodstvye S.A. V.I. Stepanov
Soviet Ministry of Light Industrial Production
118, Tverskaya Street, Moscow, 1030 (Correspondence Address and Stock
Firms)
Moscow, 1958. 500 p. 12,000 copies printed.

Additional comments from author concerning his publications:

Mr. (title page), Dr. A. Gal'per, Doctor of Technical Sciences, Mr. (name not
known), Engineer, Sov. M., B.I. Shabot, Researcher, Institute for
Technology on Metal Working and Tool Making, Prof. Professor, Engineer,
Inventor, Head of Laboratory for Manufacturing and Technical Problems, or know-
ledgeable man and have experience of manufacturing and tool-making plants.
Comments: This collection of 10 articles, compiled by 25 authors, aims to acquaint
the reader with certain problems in the heat treatment of steels. The authors
are primarily concerned with the development of various types of apparatus
and heat-treatment methods and with the use of newly developed elements,
material-handling equipment, described as new design. The creators of
collections, particularly those of Shabot, also cover within the scope of the
collection, the basic technical problems, also a good deal of the material
on determining the properties of materials, the characteristics of the substances
being treated, together with fully mechanized tool manufacture, and the
manufacture of different alloying elements. There are numerous tables
and graphs, which are very useful. The articles selected placed at the end of chapter are
useful. The articles comprising this collection are reports
from the Scientific and Technical Conference held in Moscow.
Chairman, Prof. Stepanov is Moscow.

NAME & ADDRESS AND TITLE AND PAGES:
Biro na Poljotchnym Proizvodstvye S.A. V.I. Stepanov
Soviet Ministry of Light Industrial Production
118, Tverskaya Street, Moscow, 1030 (Correspondence Address and Stock
Firms), Dr. A. Gal'per, Corresponding Member of the Academy and
Professor, A.D. O.F. Shabot, Researcher, Institute for Metal Working and
Technology of Semimolten Metals, and V.V. Slobodcov, Properties and
Gal'per, Jr. A. Elements in the Composition and Heat Treatment of Tool
Metals, And. A. Investigation of 3163 Tool Steel as a Material for
Zinc, And. New Type of High-speed Steels
Gal'per, Jr. Hardening and Structure of High-speed Steels via Induction
heat up

ACCESSION NR: AP4040614

S/0286/64/000/011/0021/0021

AUTHOR: Pere1'nan, Ye. G.; Lady*gina, A. A.; Krasnitskiy, Z. I.;
Zhetvin, N. P.; Kontsevaya, Ye. M.; Brusilovskiy, B. S.; Soroko,
L. N.; Filonov, V. A.; Ksenzuk, F. A.; Barziy, V. K.

TITLE: High-strength steel for stamped and weldable parts. Class
21, No. 162866

SOURCE: Byul. izobr. i tovar. znakov, no. 11, 1964, 21

TOPIC TAGS: multicomponent steel, high strength steel, alloy
steel, heat resistant steel

ABSTRACT: This Author Certificate has been issued for a high-strength
steel for stamped and welded parts. The steel, which retains its
strength at temperatures up to 300C, contains (in %): 0.25—0.48 C,
0.5—1.0 Mn, 0.8—1.5 Si, 2.0—4.0 Cr, 0.8—1.5 Ni, 0.3—0.6 Mo,
0.7—1.5 W, 0.05—0.2 V.

ASSOCIATION: none

Cord 1/8

PEREL'MAN, Ye.I.

Effectiveness of phthivaxid therapy in tuberculosis. Sov. med.
18 no.9:28-30 S '54. (MIRA 7:11)

1. Iz Dneprodzerzhinskogo tuberkulesnogo gospitalya dlya invalidov
Otechestvennoy voyny
(ISONICOTINIC ACID ISOMERS, therapeutic use
isoniazid ther. on pulm. tuberc.)
(TUBERCULOSIS, PULMONARY, therapy
isoniazid)

PERELMAN, YE. I.

Reclamation of Land

District improvement construction projects. Gidr. i mel. 4 No. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, August 1952. 1953, Uncl.

S/135/62/000 '001/026 00
ACOS/AICL

AUTHORS Shablygin, S. V., Candidate of Technical Sciences, Civilian; "V. V.
Gargala V. D., Perel'man, Yu. A., Engineer

TITLE Clamps with a built-in toroidal transformer for spot welding of
and aluminum alloys

PERIODICAL Svarochnoye priznaniye, no. 3, 1962, 30 - 31

ED. At the Saratov Polytechnic Institute and the Plant of Electrothermal Equipment, СПИ -66 (SPI-66) type suspended clamps were developed weighing 39 kg and having a pneumatic mechanism for pressing the electrodes. The clamps are intended for welding aluminum alloy parts 0.8 + 0.8 mm thick, and low-carbon steel parts up to 3 + 3 mm thick, with 20 kamp short-circuit current of 50 cycles frequency. When using 100 cycle frequency current, the thickness of aluminum alloy parts can be increased to 1.5 - 2 mm. The clamps are different from conventional ones by having a transformer in the toroidal form which presents a number of advantages over a shell type transformer, such as higher efficiency and more stable welding conditions, in particular for spot welding aluminum alloys. The single-coil design of the secondary transformer winding makes it possible to use coil

Card 1/1

Clamps with a built-in toroidal transformer ...

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A006/A101

rents of commercial and high frequencies at voltages up to 1000 volts, respectively. The secondary winding of the transformer has a split primary loop and is simultaneously the clamp housing. The transformer has an airgap. The magnetic conductor of 66 cm² section. The primary copper winding of 30 mm length is wound around the magnetic conductor and has 20 turns. The fixed electrode holder is mounted on a central rod passing through the front lid. The movable electrode holder is mounted onto the external part of the housing and is electrically connected with the same. The high ratio of the weight of active materials to the total weight of the clamps (about 75%) raises the efficiency of the clamps at higher frequency ($f = 100$ cycles). There are 3 figures and 3 tables.

ASSOCIATION: Saratovskiy politekhnicheskiy institut (Saratov Polytechnic Institute) (Shabliyin, Sivelobov, Gargala); Zavod elektrotermicheskogo oborudovaniya (Plant of Electrothermal Equipment) (Perel'fer.)

Card 2/2

PEREL'MAN, Yu. S.

ARYUGER, P.K.; KOTS, S.L.; KAZAKOV, V.N.; GREGHANSKIY, V.S.; FEDOROV, P.N.;
MEBOZHENKO, I.A.; PEREL'MAN, Yu.S.; DANILOV, V.I., inzh., red.;
KHITROV, P.A., tekhn.red.

[Repairing electric equipment and cab sections of diesel locomotives]
Remont elektrooborudovaniia i ekipsazhnoi chasti teplovozov. Moskva,
Gos.transp.zhel.dor. izd-vo, 1955. 150 p. (MIRA 11:6)
(Diesel locomotives--Maintenance and repair)

SHABLYGIN, S.V., kand.tekhn.nauk; SIVOLOBOV, V.V., inzh.; GARGALA, V.D.,
inzh.; PEREL'MAN, Yu.A., inzh.

Gun with a built-in ring transformer for the spot welding of steel
and aluminum alloys. Svar. proizv. no.3:30-31 Mr '62.

(MIRA 15:2)

1. Saratovskiy politekhnicheskiy institut (for Shablygin, Sivolobov,
Gargala). 2. Zavod elektrotermicheskogo oborudovaniya (for
Perel'man).

(Electric welding--Equipment and supplies)

PEREL'MAN, Yu.Z., inzh.; OSIKA, K.P., inzh.; ROVENSKIY, Yu.V., tekhnik

Modified design of the fan drive of the TE1 diesel locomotive. Elek.
i tepl.tiaga no.7:40 J1 '63. (MIRA ,6:9)
(Diesel locomotives---Ventilation)

REMPEL', Aron Iosifovich, inzh.; PEREL'MAN, Yury Zalemanovich, inzh.; MI-KHAYLOVSKIY, Aleksandr Moiseyevich, inzh.; RAKEMATULIN, M.D., retsent-zent; VUL'P, V.V., inzh., red.; BOBROVA, Ye.N., tekhn. red.

[Repairing the cylinder-piston system of the 2D100 diesel engine;
practices of the Tashkent Diesel Locomotive Depot] Remont tsilindro-
goryshnevoi gruppy dizelia 2D100; iz opyta Tashkentskogo teplovoznogo
depo. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei so-
obshcheniya, 1961. 38 p.
(MIRA 14:7)

(Diesel engines—Maintenance and repair)

(OSIKA, K.P., inzh.; PEREL'MAN, Yu.Z., inzh. (Tashkent)

Mechanized washing of diesel locomotives. Elek. i tepl.
tiaga 4 no. 9:22-23 8 '60. (MIRA 13:12)
(Diesel locomotives--Cleaning)

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240010014-8

FBI DIAU, Fanni Neisevits

1st C. Soviet Koskva, Tsel'yo Akademii nauch SSSR, 149. 124 L. (S-2212),
Q181.C6P4

APPROVED FOR RELEASE: 06/15/2000

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"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240010014-8

196 - Rubidium and cesium Moscow, Izd-vo Akademii Nauk SSSR, 1941. Cf. L.

(43-31893)

Q181,R3P4

APPROVED FOR RELEASE: 06/15/2000

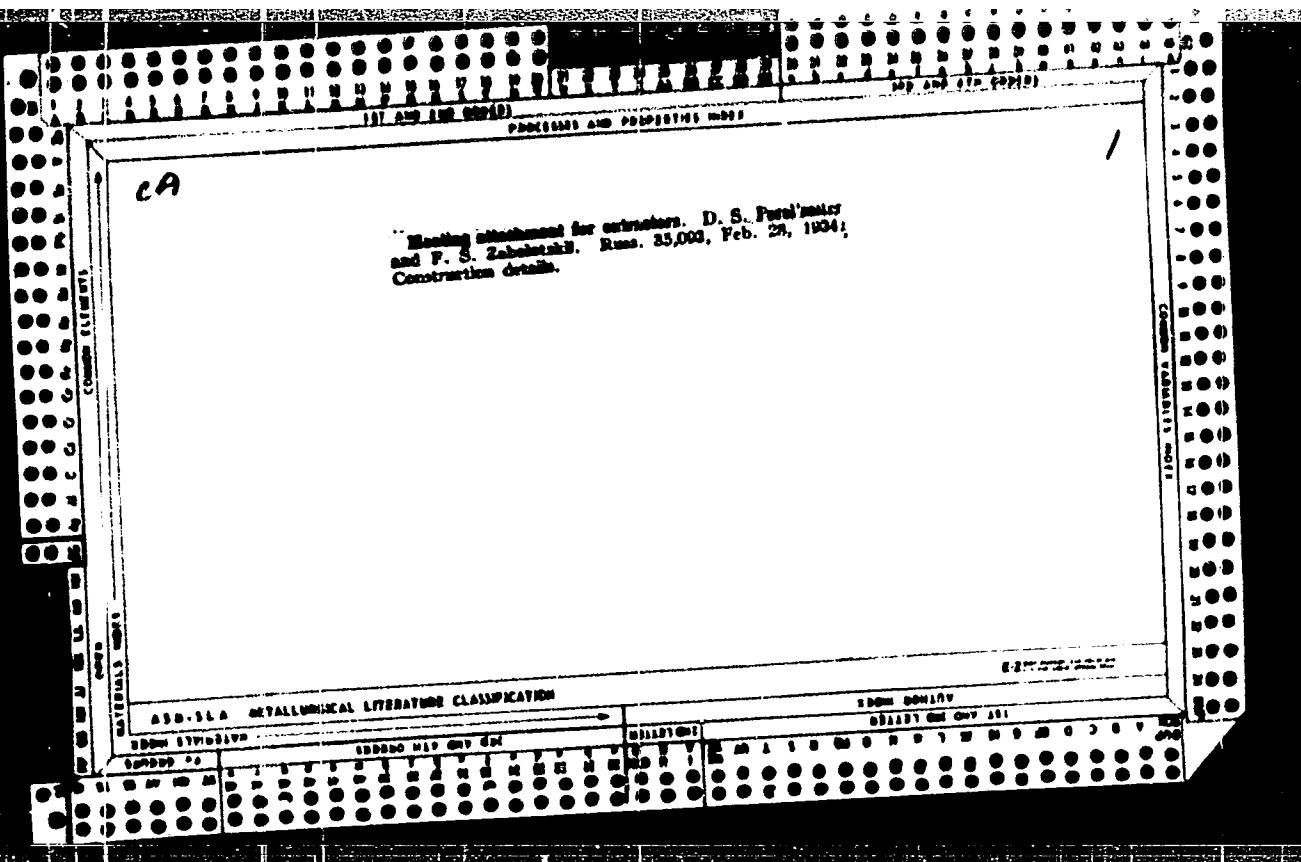
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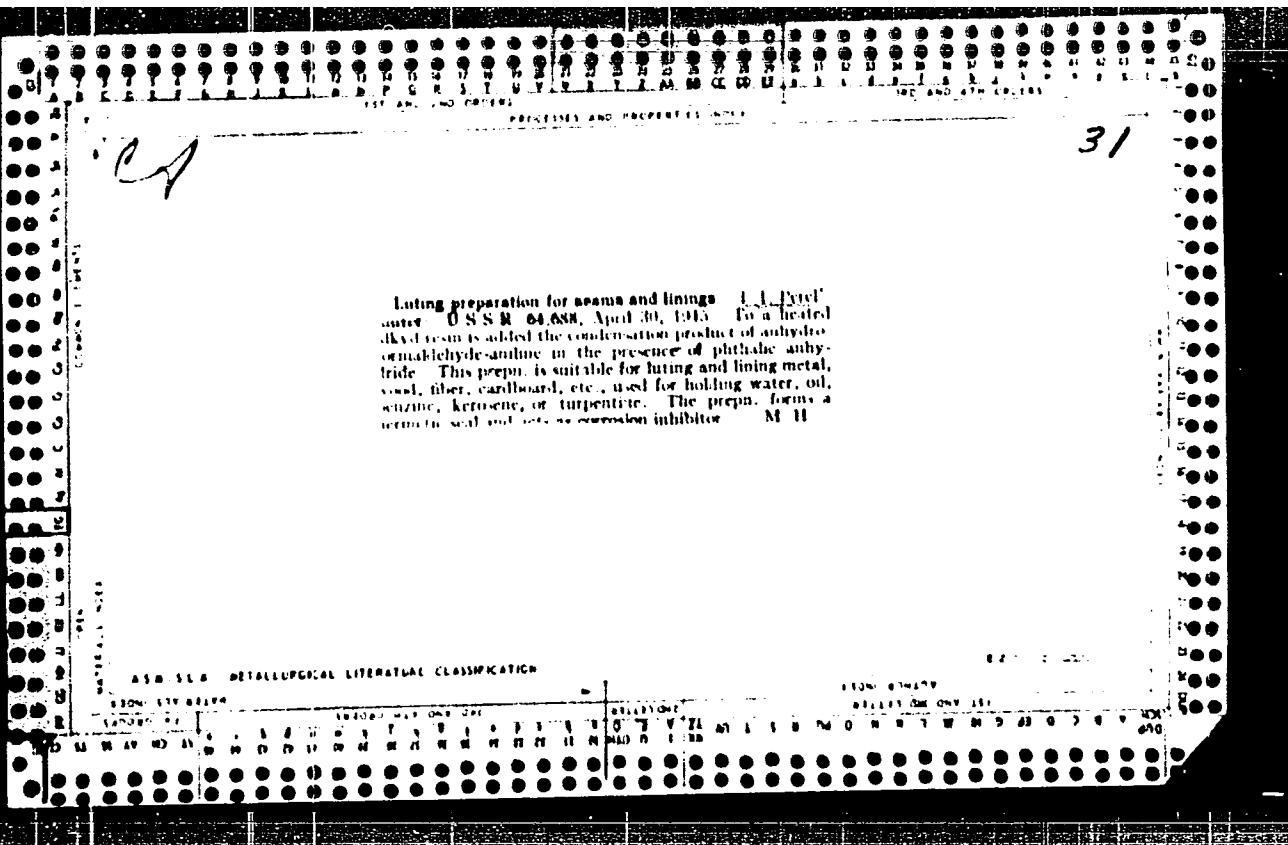
RYABOV, M. S., kand. tekhn. nauk; PEREL'MAN, Z. N., inzh.

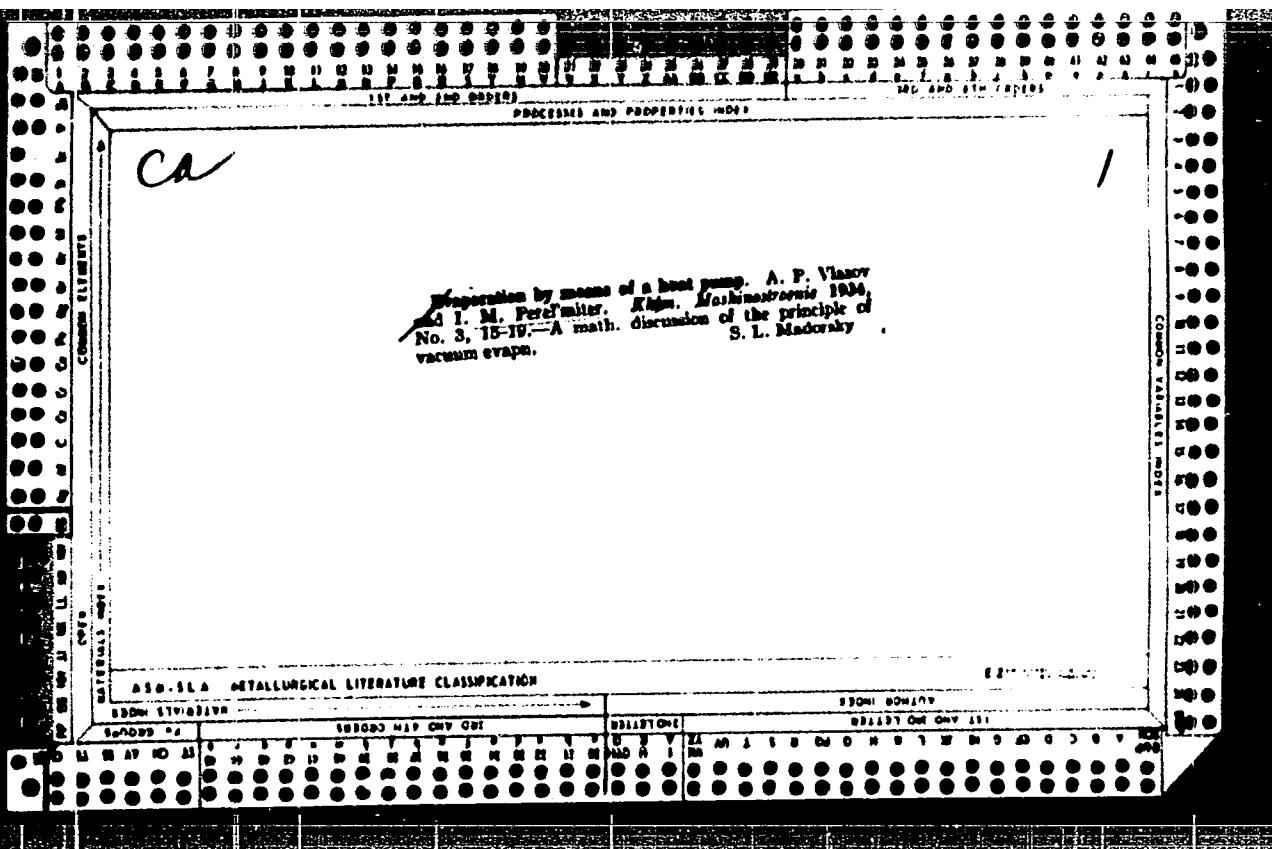
Compensation of reactive power in lighting fixtures of industrial buildings using DRL lamps. Svetotekhnika 9 no.2:1-5 P '63.
(MIRA 16:4).

1. Gosudarstvennyy institut po proyektirovaniyu elektrooborudovaniya dlya tyazheloy promyshlennosti.

(Electric power distribution)
(Electric lighting)







PEREL'MJTR, A.S.; GUREVICH, I.Ya.; KOTRAS, R.L.

NA-3M anesthetic apparatus. Nov. med. tekhn. no.3:3-9 '65.
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